	Application No.	Applicant(s)
Notice of Allowability	10/081,817	POLYAK ET AL.
	Examiner	Art Unit
	Gary B. Nickol Ph.D.	1642
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a) or other appropriate communicati (IGHTS. This application is subjec	application. If not included ion will be mailed in due course. THIS
1. \square This communication is responsive to <u>06-04-04</u> .		
2. The allowed claim(s) is/are 23,24,35 and 38-46.		
3. \square The drawings filed on $___$ are accepted by the Examine	er.	
 4. ☐ Acknowledgment is made of a claim for foreign priority unanal All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies o	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINE res reason(s) why the oath or decla	ER'S AMENDMENT or NOTICE OF aration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	son's Patent Drawing Review(PT 's Amendment / Comment or in the 1.84(c)) should be written on the dra the header according to 37 CFR 1.12	e Office action of wings in the front (not the back) of 21(d).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the ICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/	6. ☐ Interview Summa Paper No./Mail [Date
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ment of Reasons for Allowance
	GARY NICKOL PRIMARY EXAMINER	Gary B. Nickol Ph.D. Primary Examiner Art Unit: 1642

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stuart Macphail, Ph.D., J.D. on June 4, 2004.

The application has been amended as follows:

- 23. (Currently amended) A method of diagnosis, the method comprising:
- (a) providing a test cell;
- (b) determining, in the test cell, the degree of methylation of one or more C residues in a nucleotide sequence in a genomic segment, the genomic segment sensisting of comprising (i) a CpG island in the HIN-1 5' promoter region (SEQ ID NO:19) and (ii) the first twelve nucleotides of SEQ ID NO:3, wherein the one or more C residues are C residues in CpG sequences; and
- (c) comparing the degree of methylation of the one or more C residues to the degree of methylation of corresponding one or more C residues in a corresponding genomic segment in a control cell, wherein a higher degree of methylation of the one or more C residues in the test cell than in the control cell is an indication that the test cell is a cancer cell.
 - 24. (Original) The method of claim 23, wherein the test cell is a breast cell.
 - 25.-34. (Cancelled)
- 35. (Previously presented) The method of claim 23, wherein the test cell is selected from the group consisting of a lung cell, a prostate cell, a pancreatic cell, a gastrointestinal cell, and a skin cell.
 - 36. (Cancelled)
 - 37. (Cancelled)
- 38. (Previously presented) The method of claim 23, wherein the nucleotide sequence comprises nucleotide 1 to nucleotide 252 of SEQ ID NO:19.

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- 39. (Previously presented) The method of claim 23, wherein the nucleotide sequence consists of nucleotide 1 to nucleotide 252 of SEQ ID NO:19.
- 40. (Previously presented) The method of claim 23, wherein the nucleotide sequence comprises nucleotide 229 to nucleotide 551 of SEQ ID NO:19 and nucleotide 1 to nucleotide 12 of SEQ ID NO:3.
- 41. (Previously presented) The method of claim 23, wherein the nucleotide sequence consists of nucleotide 229 to nucleotide 551 of SEQ ID NO:19 and nucleotide 1 to nucleotide 12 of SEQ ID NO:3.
- 42. (Previously presented) The method of claim 23, wherein the nucleotide sequence comprises SEQ ID NO:19 and nucleotide 1 to nucleotide 12 of SEQ ID NO:3.
- 43. (Previously presented) The method of claim 23, wherein the nucleotide sequence consists of SEQ ID NO:19 and nucleotide 1 to nucleotide 12 of SEQ ID NO:3.
- 44. (Previously presented) The method of claim 23, wherein the test cell is a human cell.
- 45. (Previously presented) The method of claim 23, wherein the degree of methylation is determined by sequencing of bisulfite-treated DNA comprising the nucleotide sequence.
- 46. (Previously presented) The method of claim 23, wherein the degree of methylation is determined by a methylation-specific polymerase chain reaction (MCP) assay.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary B. Nickol Ph.D. whose telephone number is 571-272-0835. The examiner can normally be reached on M-Th, 8:30-5:30; alternate Fri., 8:30-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary B. Nickol Ph.D. Primary Examiner Art Unit 1642

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June 11, 2004

GARY NICKOL PRIMARY EXAMINER

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